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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/637,130	0 08/08/2003		Janel Lanphere	01194-465001 / 03-347	3843
26161	7590	05/10/2006		EXAMINER	
FISH & RI		SON PC	LE, HOA T		
	P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
	,,			1773	
				DATE MAILED: 05/10/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/637,130	LANPHERE ET AL	LANPHERE ET AL.	
Office Action Summary	Examiner	Art Unit		
	H. T. Le	1773		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence add	dress	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MC tute, cause the application to become A	ICATION. The reply be timely filed INTHS from the mailing date of this contained by the con		
Status				
Responsive to communication(s) filed on <u>28</u> This action is FINAL . 2b)⊠ The 3)□ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal ma	• •	merits is	
Disposition of Claims				
4) ☐ Claim(s) 1-9,11-30 and 41-58 is/are pending 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9,11-30 and 41-58 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.			
Application Papers				
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and according a control of the specific and a control	ccepted or b) objected to ne drawing(s) be held in abeya ection is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	ents have been received. Ents have been received in a light in a l	Application No n received in this National S	Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)		Summary (PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 10/03:01&04/04: 11/05, 03&05/106	_	(s)/Mail Date Informal Patent Application (PTO	-152)	

Application/Control Number: 10/637,130 Page 2

Art Unit: 1773

DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Terminal Disclaimer

2. The terminal disclaimer filed on December 14, 2005 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-9, 11-30, and 41-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Smith patent (US 5,888,930).
- Claim 1: The Smith patent teaches a spherical bead comprising a polymer having diameter from 5 µm to 5000 µm. See col. 2, lines 46-66. Smith explicitly states that the polymers "useful for preparation of the beads" of Smith invention includes polyvinyl acetate. See col. 2, line 64. Polyvinyl alcohol is a hydrolyzed product of polyvinyl acetate. Thus, if polyvinyl acetate is used as the stating material for the preparation of the beads as taught by Smith, the resulting bead is polyvinyl acohol. Therefore, the teaching taught by Smith patent encompasses polyvinyl alcohol beads. The pore sizes are very small near the surface to very

Application/Control Number: 10/637,130

Art Unit: 1773

large pores in the interior (col. 2, lines 50-53), which lead to different in pore density between the interior region and the surface region.

Claim 2: The pore sizes are very small near the surface to very large pores in the interior (col. 2, lines 50-53), which means that the pore density in a surface region is greater than that of the interior region.

Claims 3-4: See col. 2, lines 50-53.

Claims 5-8: The claimed diameter range falls within the range taught by the Smith patent at col. 2, lines 46-49.

Claim 9: See col. 2, lines 57-66.

Claims 13-14: The particles are spherical, thus their sphericity must be at least 0.9.

Claims 18-19: The polymers as listed at col. 2, lines 57-66 are insoluble in DMSO and are free of animal-derived compounds.

Claims 20-21: See rejection to claim 1. Larger pores in the interior region would mean that average pore size at the interior region is greater than that at the surface region.

Claims 22 and 30: See examples 20-22 where the particles are mixed in a carrier fluid (a mixture of sticker, surfactant and water.

Claims 25-29 and 54-58: The claimed diameter range falls within the range taught by the Smith patent at col. 2, lines 46-49.

Claim 41: See rejection to claim 1. Larger pores in the interior region would mean that average pore size at the interior region is greater than that at the surface region.

Application/Control Number: 10/637,130

Art Unit: 1773

Claims 42-45: The claimed diameter range falls within the range taught by the Smith patent at col. 2, lines 46-49.

Page 4

Claims 48-51: The claimed diameter range falls within the range taught by the Smith patent at col. 2, lines 46-49.

5. Applicant's arguments with respect to the rejection based on the Smith patent have been considered but are most in view of the new ground of rejection set forth above.

Response to Arguments

6. Claims 41-46 are rejected under 35 U.S.C. 102(b) as being anticipated by the Quelle patent (DE 100 26 620) as set forth in the last office action and further discussed below.

Applicant argues that Quelle teaches porous particles that can have a cavity and a shell which is either porous or non-porous. Thus Applicant concludes that "[w]hile Quelle discloses porous particles, Quelle does not disclose that his porous particles can have two porous regions with different pore densities." Note that, as explicitly discussed in the last office action, claim 3 of the Quelle patent features a porous article wherein the outer shell is nonporous. Thus, the pore density at the surface of the porous particle is approximately zero. This necessarily requires that the pore density in an interior region of the Quelle particle is greater than the pore density at a surface region.

7. Applicant's arguments with regard to claims 41-46 are not persuasive for the reasons set forth above.

Application/Control Number: 10/637,130 Page 5

Art Unit: 1773

8. Applicant's arguments with respect to the rejection based on the Smith patent have been considered but are moot in view of the new ground of rejection set forth in paragraph 4 above

- 9. Applicant's arguments with respect to the rejections under 35 U.S.C. 112, first paragraph, have been fully considered and are persuasive. Therefore, these rejections have been withdrawn.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 10:00 a.m. to 6:30 p.m., Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on 571-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 1773